FEA

FM Extender Antenna

For use with SIRIUS Plug & Play Radios and Vehicle Kits

SIRIUS®
SATELLITE RADIO
THE BEST RADIO ON RADIO™

Installation Guide

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Warning and Safety Information

Safety Precautions

Be sure to observe the following warnings. Failure to follow these safety instructions and warnings may result in a serious accident and/or personal injury.

- Installation must be performed according to this installation guide. SIRIUS® is not responsible for issues arising from installations not performed according to the procedures in this guide.
- Do not install the FM Extender Antenna where it will hinder or block your view. In some states it may be illegal to mount it on the windshield of your vehicle. Check applicable law for any restrictions or limitations before installing the extender cable on your windshield.
- Do not install the FM Extender Antenna where it may hinder the function of safety devices such as an airbag. Doing so may prevent the airbag from functioning properly in the event of an accident.
- The installation and use suggestions contained in this manual are subject to any restrictions or limitations that may be imposed by applicable law. The purchaser should check applicable law for any restrictions or limitations before installing the extender cable.

Notice To Drivers In California and Minnesota

State law prohibits drivers in California and Minnesota from using suction mounts on their windshields while operating motor vehicles. Other dashboard or friction mounting options should be used. SIRIUS does not take any responsibility for any fines, penalties, or damages that may be incurred as a result of disregarding this notice. (See California Vehicle Code Section 26708(a); Minnesota Statutes 2005, Section 169.71)

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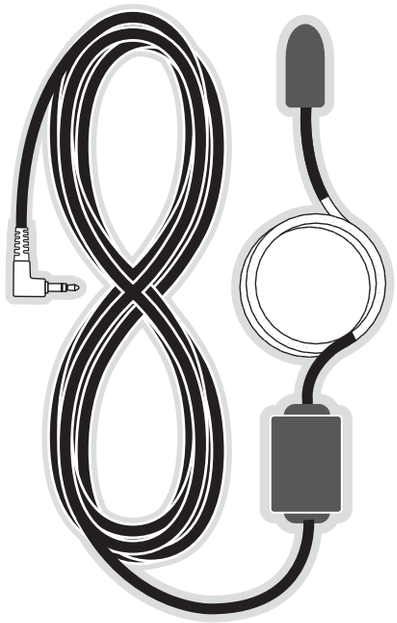
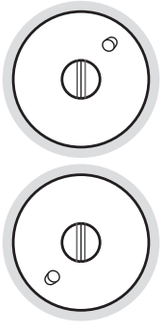
Package Contents

The following items are included with the SIRIUS FM Extender Antenna package that came with your SIRIUS radio or SIRIUS vehicle kit. Unpack carefully and make sure that everything shown is present. If anything is missing or damaged, or if the antenna fails to operate properly, notify your dealer immediately. It is recommended that you retain the original carton and packing materials in case you need to ship your FM Extender Antenna in the future.



FM Extender Antenna



Suction Cups (2)

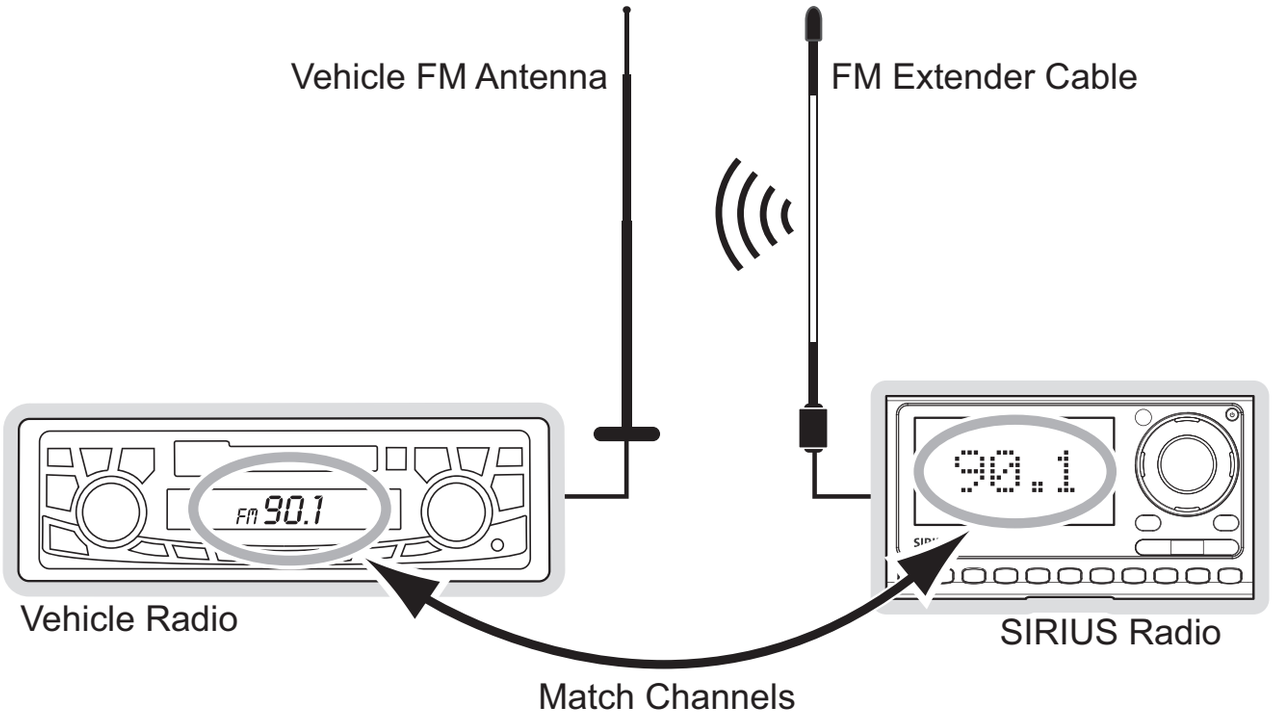
Self Adhesive Cable Guides (3)

Alcohol Swab

Getting Started

Using the FM Extender Antenna included with your SIRIUS radio or vehicle kit provides an FM signal with maximum audio quality from your SIRIUS radio. The FM Extender Antenna brings the FM signal transmitted from your SIRIUS radio into close proximity with your vehicle's FM antenna to provide a strong FM signal for good reception.

If you will be using a Direct Connection, please refer to the manual which accompanied your SIRIUS plug and play radio or vehicle dock.



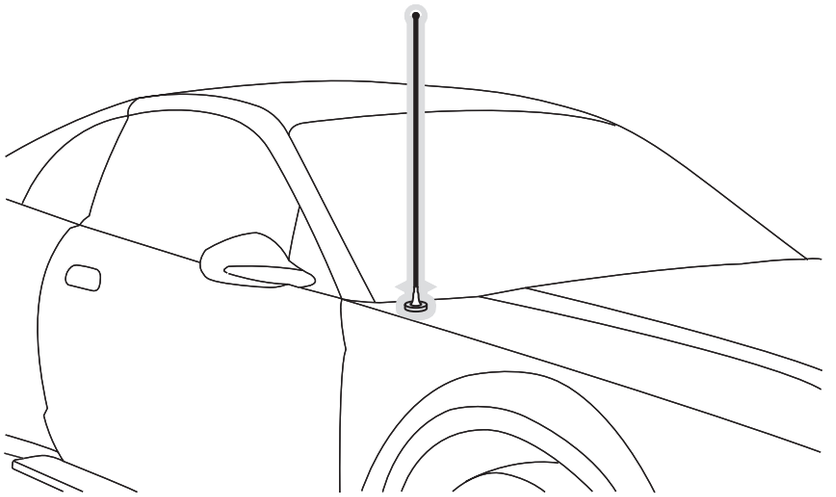
Proper placement of the FM Extender Antenna inside your vehicle in close proximity to the vehicle's own FM antenna will provide a strong FM signal for good reception. The FM Extender Antenna has permanent adhesive mounts for installing it on your vehicle's window.

Because of the different kinds of FM antennas found in vehicles, and the varied locations of the antenna in each vehicle, SIRIUS suggests professional installation of this product in your vehicle. Professional installation provides an experienced technician to install this product in

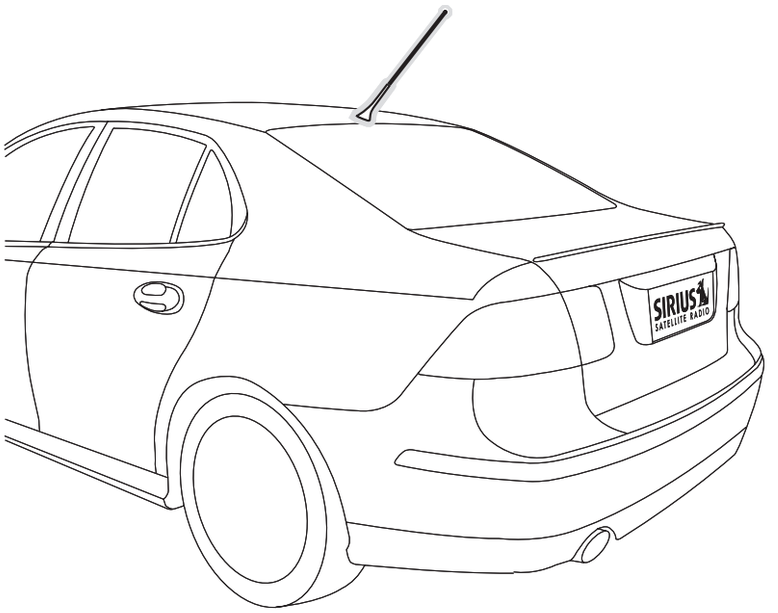
your vehicle, knowledge of your vehicle for locating the vehicle's FM antenna, installation of this product, and routing the cable and connecting it to your SIRIUS radio. Ask your SIRIUS retailer if they provide professional installation services, or can recommend a professional installation service.

The FM antennas found in vehicles are of four distinct types:

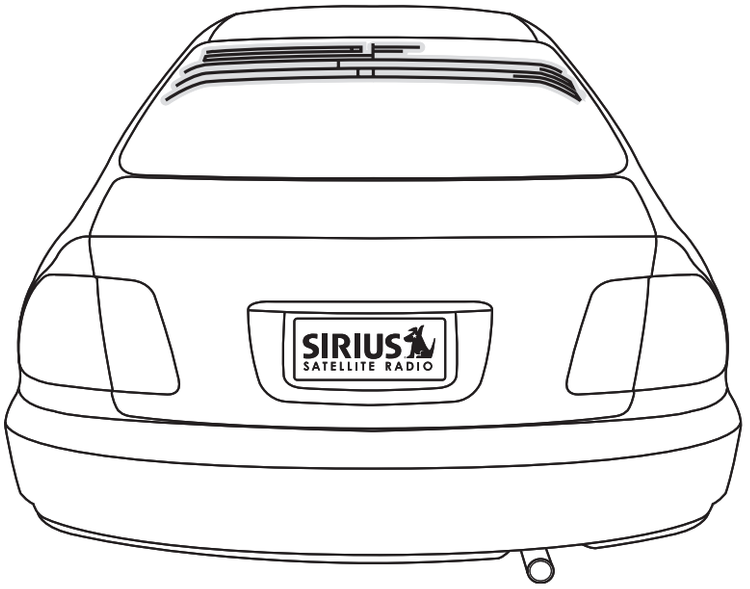
- **Aerial Type Fender Mounted FM Antenna:** A fixed or retractable aerial antenna located on the front or rear fender of the vehicle.



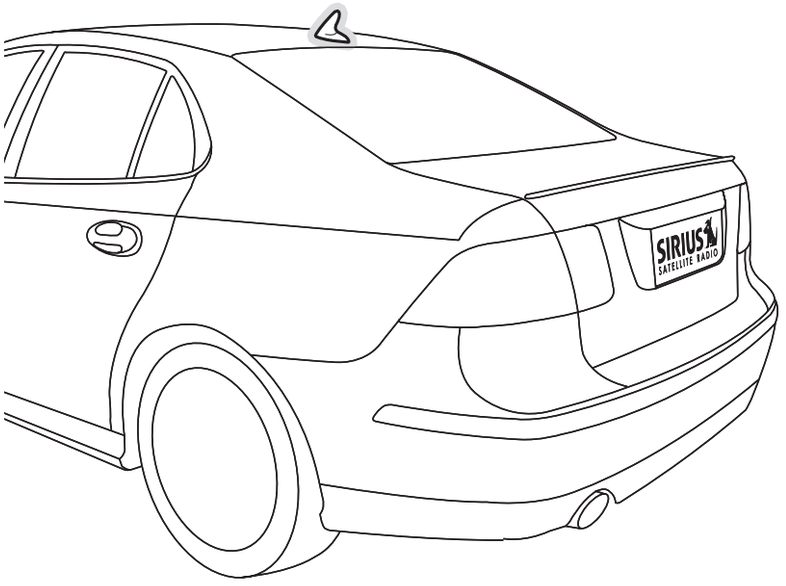
- **Aerial Type Roof Mounted FM Antenna:** A fixed aerial antenna mounted on the roof (often at the front or rear of the roof, just above the window glass).



- **On Glass Type FM Antenna:** Wires on the window glass of the vehicle, usually near the top of the window. It may be located on the windshield glass, the rear window glass, or a rear side window in some SUV and mini-van type vehicles (and other vehicles). It will look similar to the rear window defroster wires found in many vehicles.



- **"Shark Fin" Type FM Antenna:** A device resembling a shark fin (or other shape) located on the vehicle roof above the rear window.



Before attempting installation, you should verify the type and location of the FM antenna in your particular vehicle. If you have trouble locating it, consult the manual which accompanied your vehicle, consult a dealer for your type of vehicle, or consult a professional installer.

Installation

The FM Extender Antenna should be placed inside the vehicle, as close as possible to the vehicle's FM antenna. A test mounting should be done first using the included suction cup mounts to test the installation. Once an acceptable location has been found, you will remove the suction cups and permanently adhere the FM Extender Antenna using the adhesive mounts.

To install the FM Extender Antenna in your vehicle, follow these instructions:

1. Attach the suction cups to the FM Extender Antenna in the positions shown in Figure 1.

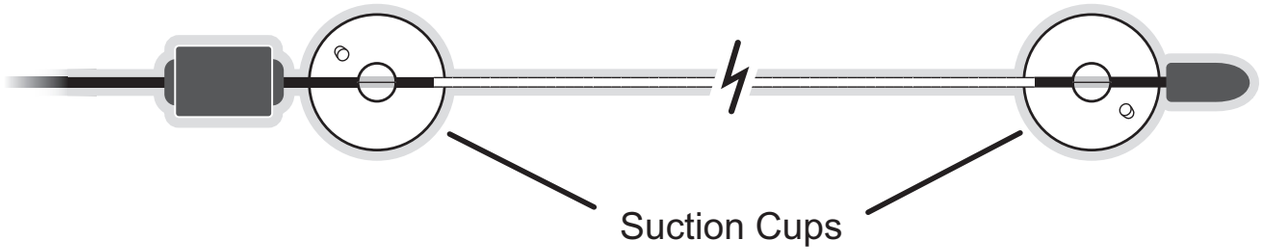


Figure 1

2. In this step, follow the specific instructions in sub-step **a**, **b**, **c**, or **d** depending on the type of FM antenna in your vehicle:

   a. **<u>Installation Instructions for Vehicles with Aerial Type Fender Mounted FM Antenna</u>.** For vehicles where the FM radio antenna is located on the front fender, the FM Extender Antenna should be mounted vertically on the front windshield at the edge of the glass nearest to the antenna. (Figure 2)

   For vehicles where the FM radio antenna is located on the rear fender, the FM Extender Antenna should be mounted vertically on the rear window at the edge of the glass nearest to the antenna. (Figure 3)

   Clean the area where the suction cups will be mounted with the supplied alcohol swab and attach the FM Extender Antenna to the section of glass closest to the FM antenna in a vertical orientation. (Figure 2 or Figure 3) The wire between the two suction cups should be pulled taut and as straight as possible, and should not obstruct the driver's view.

Important Caution: In some states it may not be legal to put the FM Extender Antenna on the windshield glass. In this case, the FM Extender Antenna should be mounted on the A-Pillar adjacent to the FM antenna. (Figure 2) Clean the area where the suction cups will be mounted with the supplied alcohol swab.

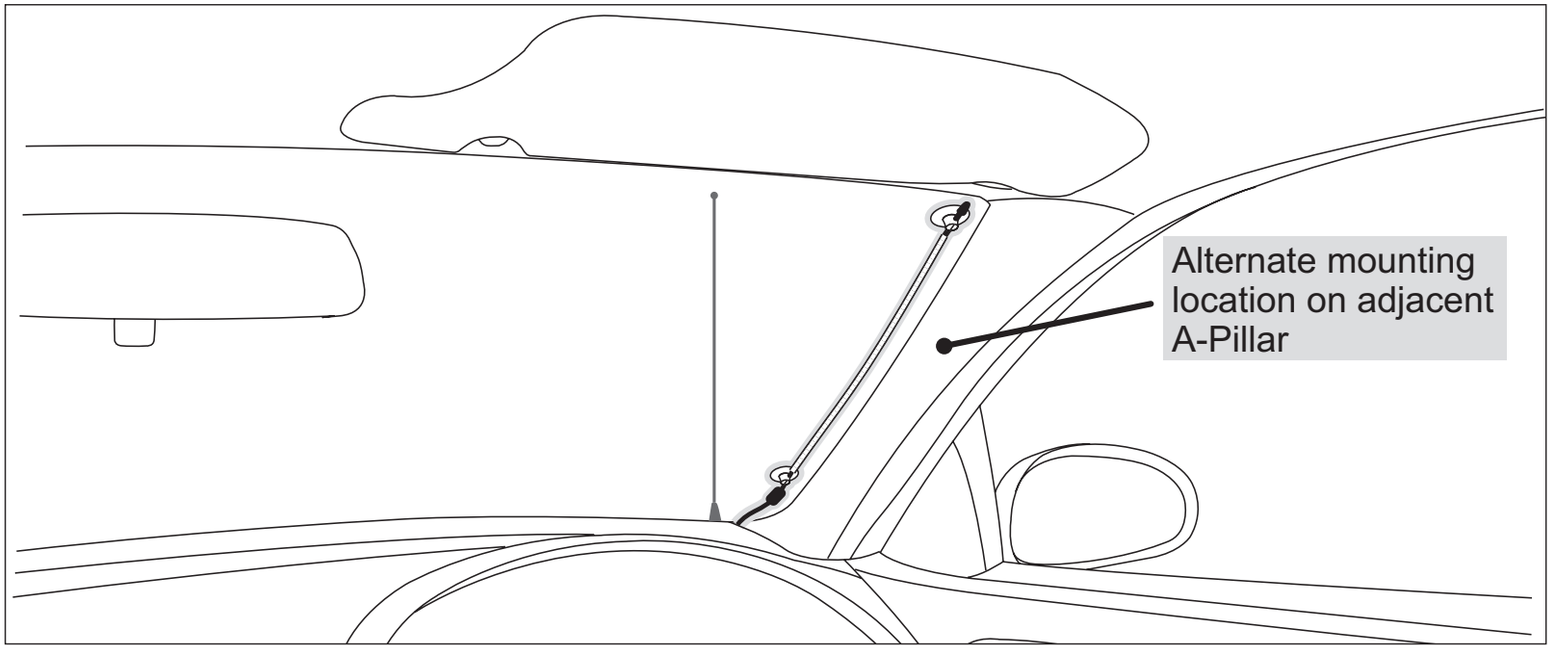


Figure 2

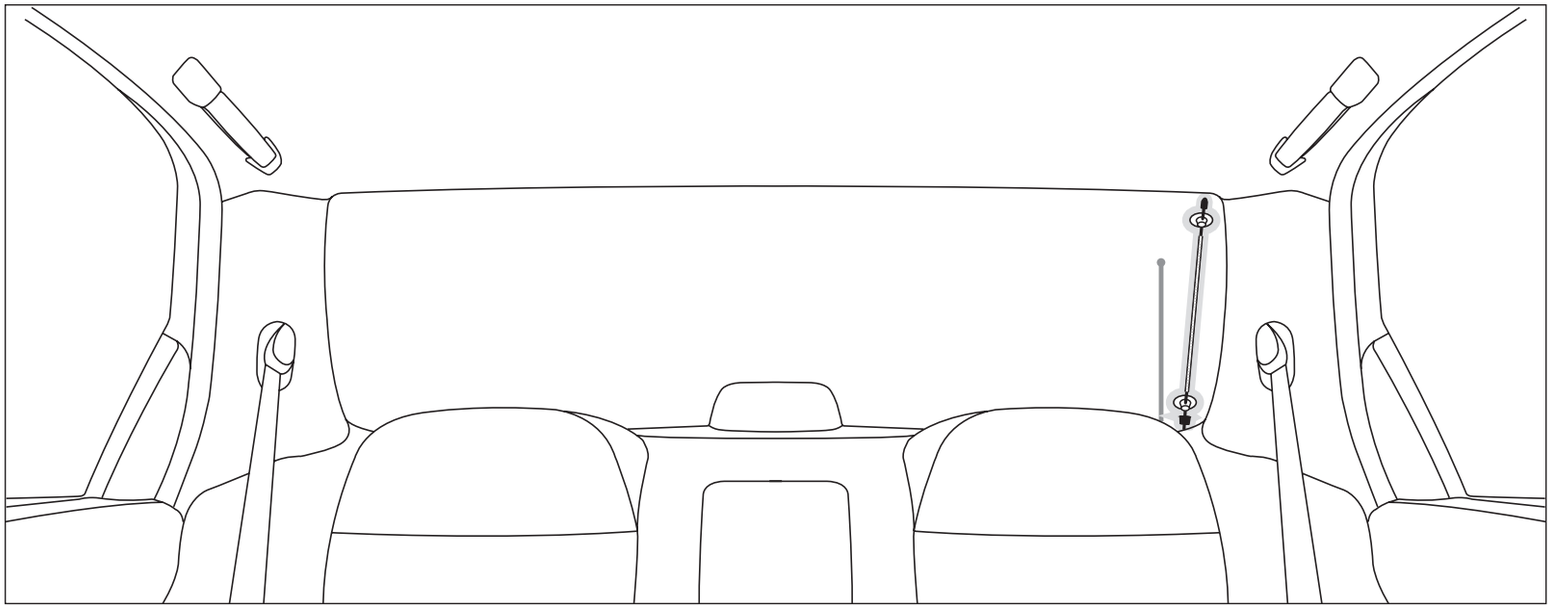


Figure 3

b. <u>Installation Instructions for Vehicles with Aerial Type Roof Mounted FM Antenna</u>. For vehicles where the FM radio antenna is located on the front or rear of the roof of the vehicle, the FM Extender Antenna should be mounted horizontally on the front or rear glass below the FM antenna, or installed into the headliner of the vehicle under the FM antenna.

- If you are installing the FM Extender Antenna on the window glass, clean the area where the suction cups will be mounted with the supplied alcohol swab and attach the suction cups to the glass under the FM antenna in a horizontal orientation. The wire between the two suction cups should be pulled taut and as straight as possible, and should not obstruct the driver's view. (Figure 4)
- If you are installing the FM Extender Antenna into the headliner, remove the suction cups and tuck the wire into the headliner, stretched taut and straight, and centered under the FM antenna.

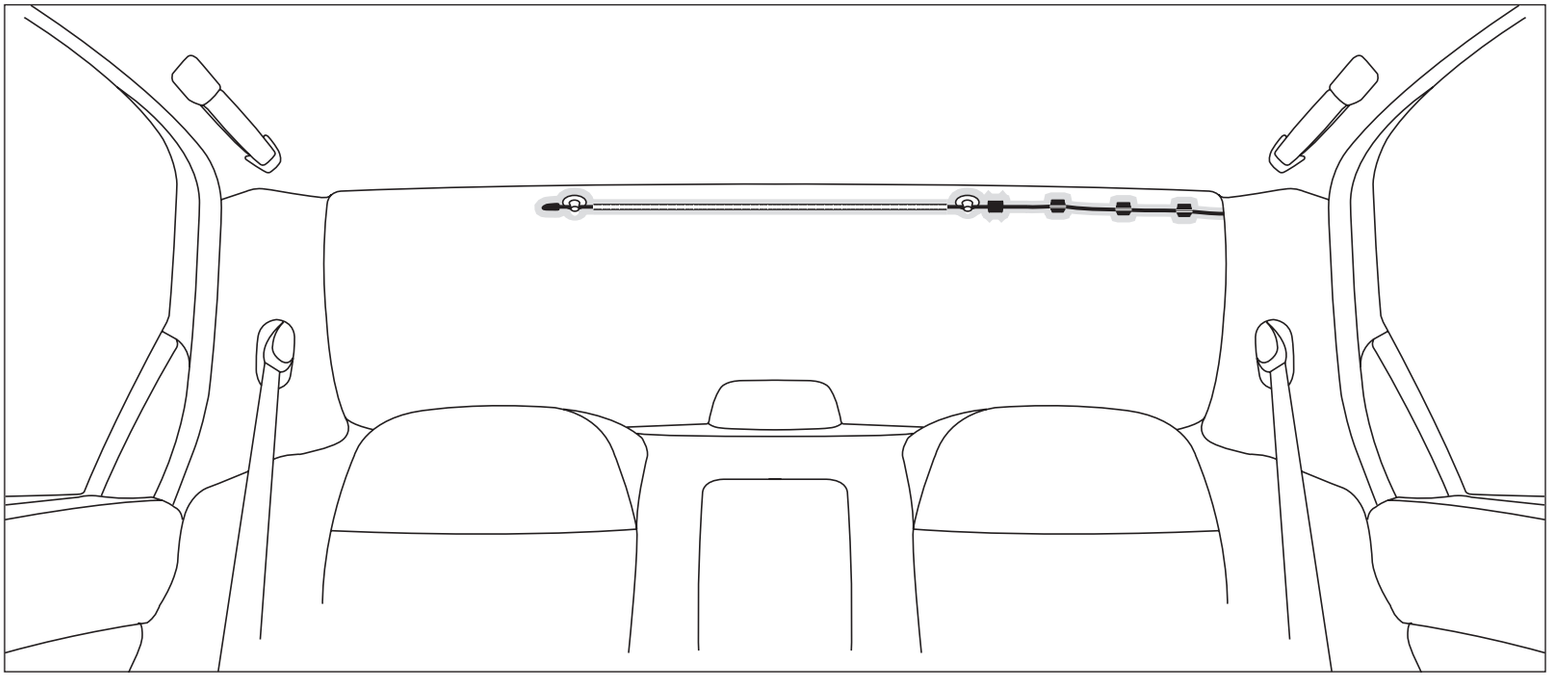


Figure 4

c. <u>Installation Instructions for Vehicles with On Glass Type FM Antenna.</u>

For vehicles where the FM radio antenna is located on the window glass, the FM Extender Antenna can be mounted horizontally on the glass, directly over the FM radio antenna, or installed into the headliner of the vehicle directly above the FM antenna.

- If you are installing the FM Extender Antenna on the window glass, clean the area where the suction cups will be mounted with the supplied alcohol swab and attach the suction cups to the glass centered over the FM radio antenna in a horizontal orientation. The wire between the two suction cups should be pulled taut and as straight as possible, and should not obstruct the driver's view. (Figures 5 & 6)
- If you are installing the FM Extender Antenna into the headliner, remove the suction cups and tuck the wire into the headliner, stretched taut and straight, and centered above the FM antenna.

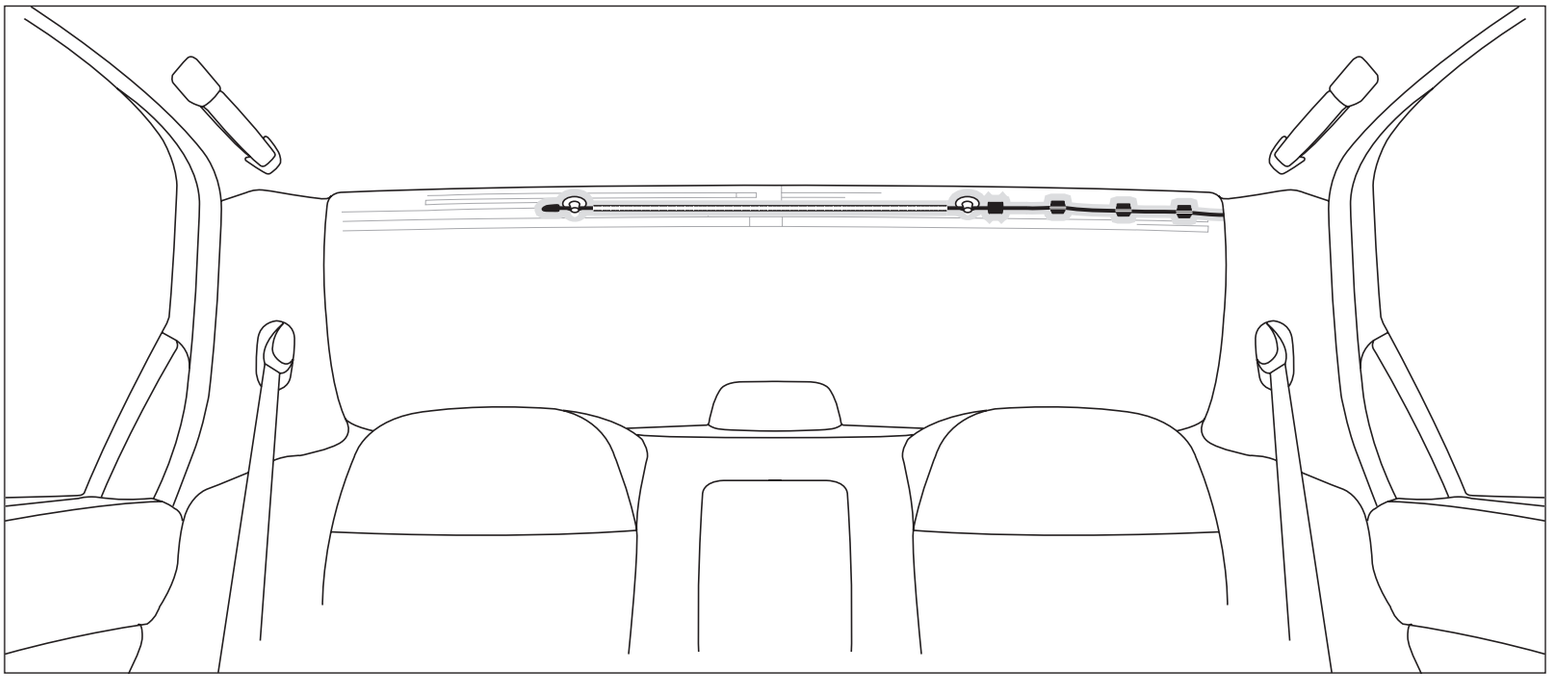


Figure 5

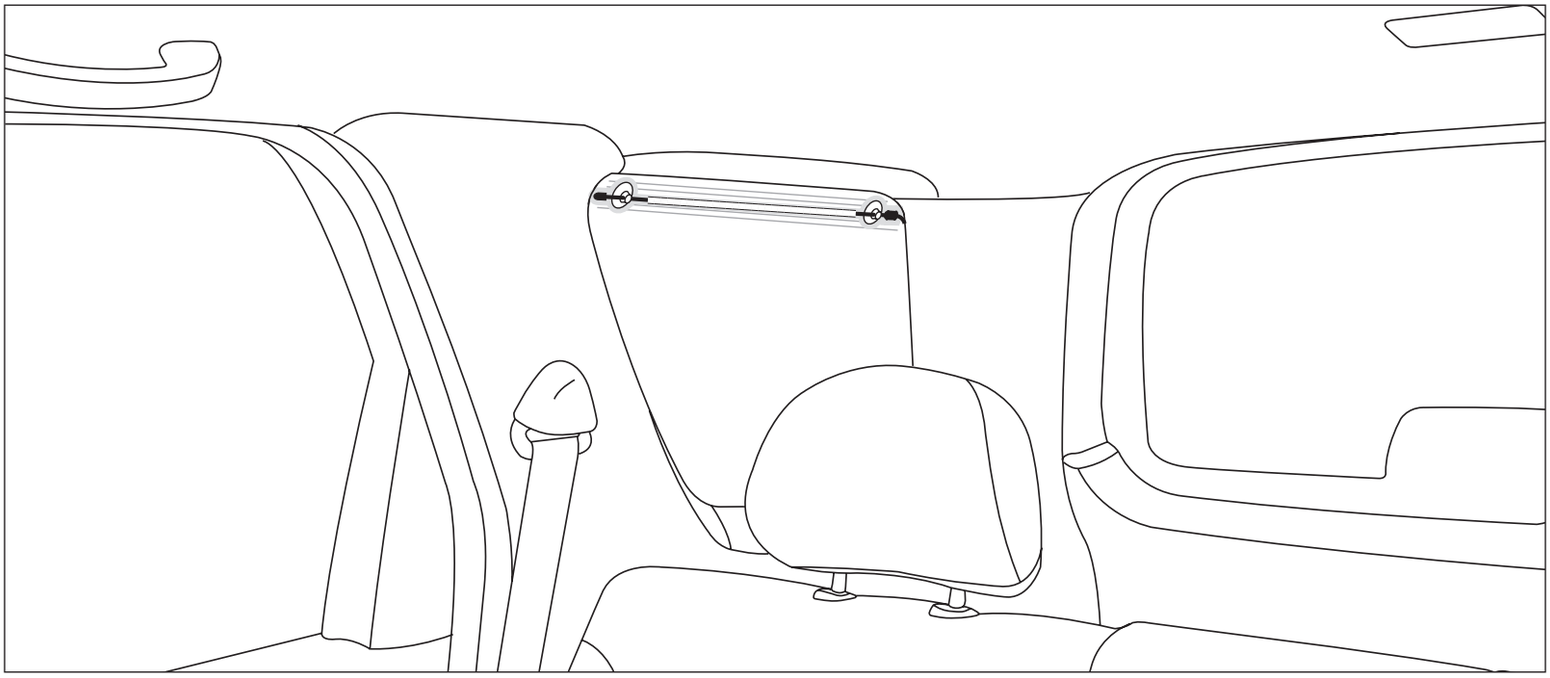


Figure 6

d. <u>Installation Instructions for Vehicles with Shark Fin Type FM Antenna.</u> For vehicles where the FM radio antenna is located on the rear of the roof of the vehicle, the FM Extender Antenna should be mounted horizontally on the glass below the FM antenna, or installed into the headliner of the vehicle under the FM antenna.

- If you are installing the FM Extender Antenna on the window glass, clean the area where the suction cups will be mounted with the supplied alcohol swab and attach the suction cups to the glass below the FM antenna in a horizontal orientation. (Figure 7) The wire between the two suction cups should be pulled taut and as straight as possible, and should not obstruct the driver's view.
- If you are installing the FM Extender Antenna into the headliner, remove the suction cups and tuck the wire into the headliner, stretched taut and straight, and centered under the FM antenna.

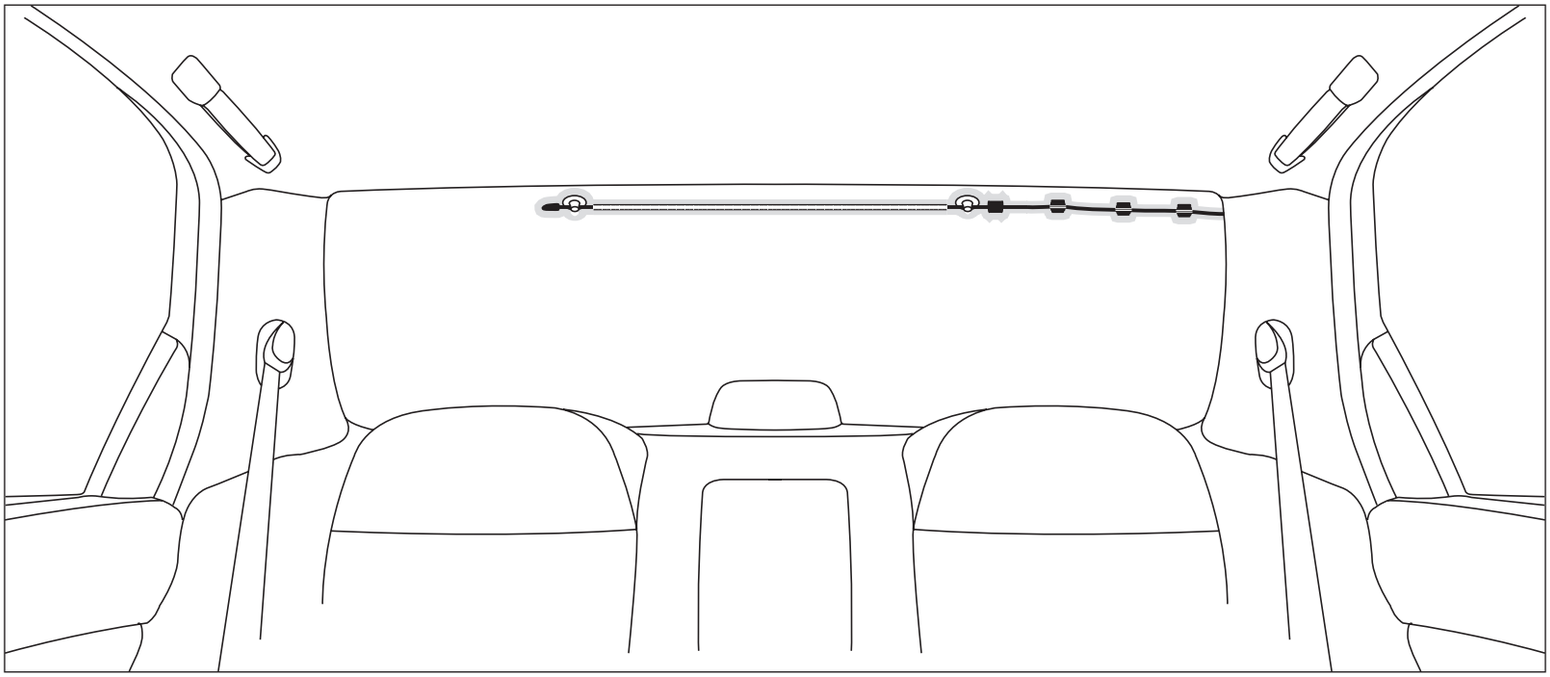


Figure 7

3. Plug the FM Extender Antenna into the **FM OUT** connector of the vehicle dock, or your SIRIUS radio:

   For plug and play radios such as **Stratus, Starmate 3, Starmate 4, Sportster 3,** and **Sportster 4,** etc., which use a vehicle dock, refer to Figure 8:

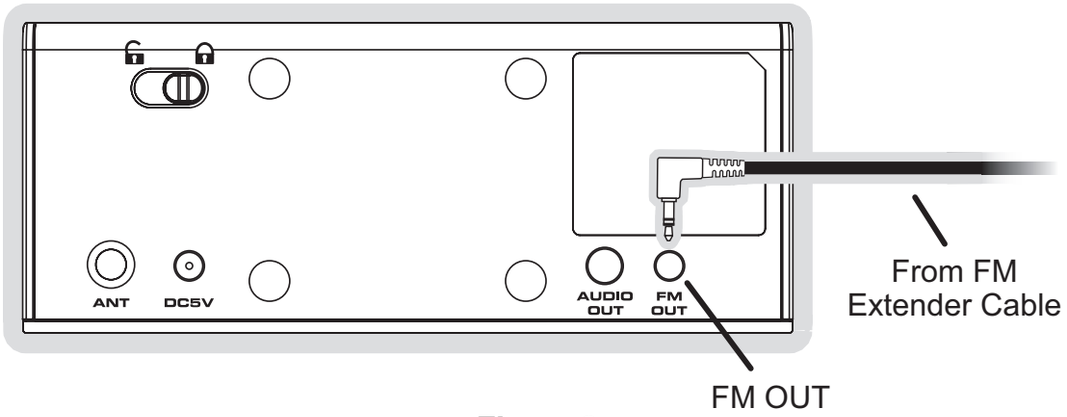


Figure 8

   For portable radios such as **Stiletto** which use a vehicle dock, refer to Figure 9:

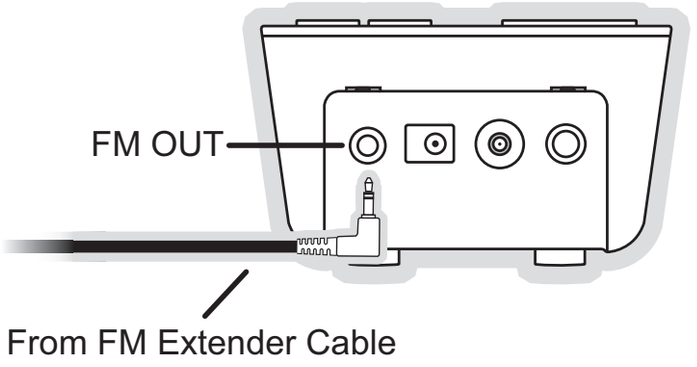


Figure 9

For radios such as **InV** which have connectors built into the radio and do not use a vehicle dock, refer to Figure 10:

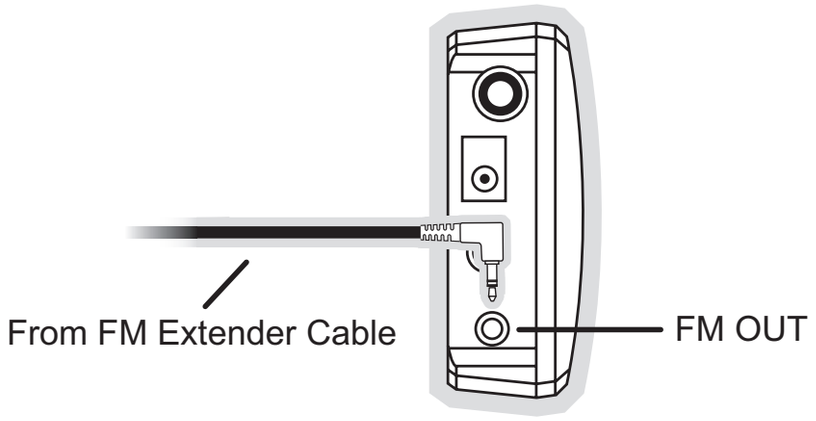


Figure 10

4. Tune your vehicle's FM radio and your SIRIUS radio to the same FM channel (Figure 11):
   a. Turn off your SIRIUS radio and tune through the FM channels on your vehicle's radio to locate an FM channel that is not broadcasting in your area. If you use an FM channel that is being used by a local broadcaster, it will interfere with the performance of your SIRIUS radio. Once you have located an FM channel that is not broadcasting in your area, save it as a preset on your vehicle radio. This will become your SIRIUS preset.

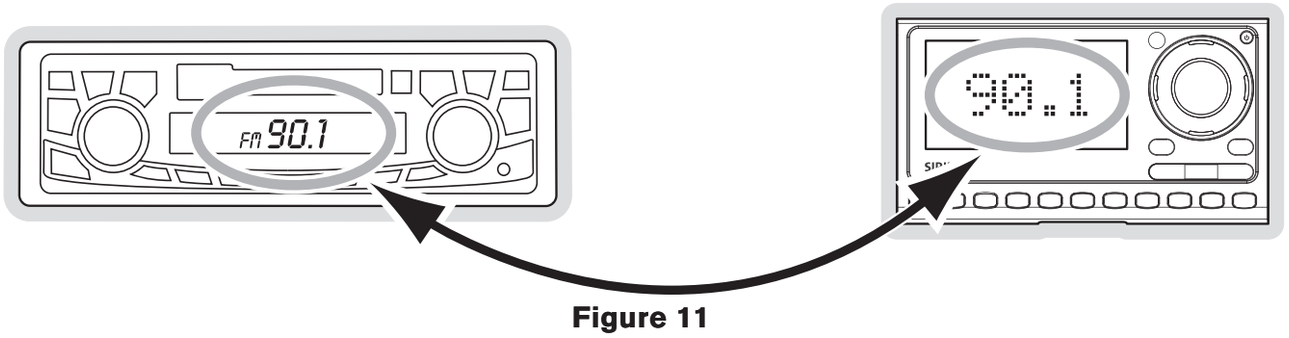


Figure 11

   b. Turn on your SIRIUS radio. Press and hold the Menu button until the *FM Frequency* screen is displayed. Set the channel number on your SIRIUS radio to match the SIRIUS preset on your vehicle's radio. Refer to the user guide which accompanied your SIRIUS radio for detailed instructions on how to do this.

Note: The FM transmitter in your SIRIUS radio is automatically set to FM channel 88.1. This may not be the best channel in your area.

5. You should now hear the audio from your SIRIUS radio over your vehicle's FM radio. If the audio quality is not satisfactory, try moving the FM Extender Antenna slightly to see if a better signal can be obtained.
6. *If you are mounting the FM Extender Antenna in the headliner of the vehicle, skip this step.* When you are satisfied with the mounting location, remove the suction cup mounts and peel the backing off the adhesive mounts. Permanently adhere it in the same position on the glass (or A-Pillar), keeping it taut and as straight as possible. (Figure 12)

Figure 12

7. Route the antenna cable to your SIRIUS radio. Use the included self adhesive cable guides (if necessary) to hold the antenna wire in place until it reaches the weather stripping or moulding at the edge of the window. Take advantage of any existing cable channels or wiring conduits and route the cable around the passenger compartment to the vehicle dock. Take care not pull the cable across sharp edges that could damage it, and keep it away from areas where it might entangle feet. Coil and secure any excess antenna cable in a location where it can be hidden and secured.
8. Plug the FM Extender Antenna into the **FM OUT** connector of the vehicle dock. (Refer to step 3 on page 16.)

This completes the installation of the FM Extender Antenna. If you're not sure which FM channels are not broadcasting in your home or travel cities, you can also go to **http://sirius.com/fmchannel** and search for a suggested FM channel based on your zip code.

Warranty

12 Month Warranty

SIRIUS Satellite Radio Inc. (the "Company") warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced with new or reconditioned product (at the Company's option) without charge for parts and repair labor. To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to the location shown below under WARRANTY RETURN.

This Warranty does not extend to the elimination of externally generated static or noise, to correction of antenna problems, to costs incurred for installation, removal or reinstallation of the product, or to damage to tapes, compact discs, speakers, accessories, or vehicle electrical systems.

This Warranty does not apply to any product or part thereof which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s). THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 48 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

WARRANTY RETURN: To obtain repair or replacement within the terms of this Warranty, please return product to an authorized retailer or call Customer Service at 1-800-869-5187; proof of purchase and description of defect are required. Products to be returned to an approved warranty station must be shipped freight prepaid.

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